

CLAIMS

1. A liquid fuel supply type fuel cell comprising:
 a plurality of unit cells each having a solid electrolyte membrane,
 a fuel electrode disposed on one surface of said solid electrolyte membrane,
 and an oxidizer electrode disposed on the other surface of said solid
5 electrolyte membrane in opposition to said fuel electrode associated
 therewith, wherein said plurality of unit cells share said solid electrolyte
 membrane, and are electrically connected to each other.
2. The liquid fuel supply type fuel cell according to claim 1, further
 comprising an electrically conductive member extending through said solid
 electrolyte membrane, wherein at least two of said plurality of unit cells are
 connected in series through said electrically conductive material.
3. The liquid fuel supply type fuel cell according to claim 1, further
 comprising a sealing material interposed between said electrically
 conductive member and said solid electrolyte membrane.
4. The liquid fuel supply type fuel cell according to claim 2, wherein
 said electrically conductive member has a surface coated with an insulating
 material.
5. The liquid fuel supply type fuel cell according to claim 3, wherein
 said electrically conductive member has a surface coated with an insulating
 material.

6. The liquid fuel supply type fuel cell according to claim 1, further comprising a low ion conductive region of said electrolyte membrane between said unit cells.

7. The liquid fuel supply type fuel cell according to claim 6, wherein said low ion conductive region is a region having a groove formed on said solid electrolyte membrane.

8. The liquid fuel supply type fuel cell according to claim 7, wherein said groove is filled with an insulating resin.

9. The liquid fuel supply type fuel cell according to claim 6, wherein said low ion conductive region is a region having a recess formed on said solid electrolyte membrane.

10. The liquid fuel supply type fuel cell according to claim 9, wherein said recess is filled with an insulating resin.

11. The liquid fuel supply type fuel cell according to claim 8, wherein said insulating resin is any of a fluorine-based resin, a polyimide-based resin, a phenol-based resin, and an epoxy-based resin.

12. The liquid fuel supply type fuel cell according to claim 10, wherein said insulating resin is any of a fluorine-based resin, a polyimide-based resin, a phenol-based resin, and an epoxy-based resin.

13. The liquid fuel supply type fuel cell according to claim 1, further comprising a fuel flow path which covers said plurality of fuel electrodes, wherein said fuel flow path has a partition, part of which is comprised of said solid electrolyte membrane.

14. The liquid fuel supply type fuel cell according to claim 1, wherein at least two of said plurality of unit cells are connected in parallel.